

1   confront unique terrain and density issues,  
2   they are still, at bottom, using the same  
3   technology, the same types of facilities, the  
4   same engineering network architecture. And I  
5   don't really believe that it is not possible  
6   to develop -- to incorporate them into a  
7   modeling approach. And what that will do is  
8   to de-link support from the company's own  
9   self-serving cost investment and operations  
10   decisions. It will also de-link the funding  
11   mechanism from cost allocations, which -- I  
12   was describing to somebody yesterday -- as 99  
13   part art and 1 part science. And I think I  
14   may be overly exaggerating the amount of  
15   science.

16               We need to come up with mechanisms  
17   that are out of the hands of the individual  
18   companies and that provide a robust and  
19   consistent basis for funding irrespective of  
20   how these companies are individually managed,  
21   I don't see in particular reason why that  
22   cannot be done on a forward-looking basis.

23               COMMISSIONER ABERNATHY: Thank you.

24               DR. LEHMAN: Could I add something?

25               COMMISSIONER ABERNATHY: Not right

1 now, but you'll get a chance. I'm sorry. I  
2 really want to make sure everybody gets to ask  
3 questions.

4 In fact, my question is kind of a  
5 follow-up on what Commissioner Nelson started  
6 with. And that is, I think -- Mr. Lubin,  
7 Mr. Reynolds, Dr. Lehman, the impression that  
8 I got is you're basically saying -- without  
9 regard to what we do with ETC -- that we just  
10 keep the status quo. There is really no  
11 changes that need to be or should be made  
12 today. But most economists would argue that  
13 we need to at least get a grip on how we can  
14 create incentives for efficiency.

15 And so my question to all of you is,  
16 is there anything that can be done today, or  
17 are you saying, let's just -- no change?

18 DR. LEHMAN: This is Dale Lehman.

19 I do think that the idea of the price  
20 cap has some merit if you want to enhance  
21 cost-reducing incentives. As I thought about  
22 it a little more, I think my biggest concern  
23 is with these very small carriers, some of  
24 them have -- their plant is in a different  
25 shape. And sometimes carriers change, and all

1 of a sudden they need invest more where  
2 historically they may not upgraded facilities  
3 very much.

4 And you can handle this through  
5 special cases, but I guess I just want to  
6 throw out another alternative, which is maybe  
7 we cap the fund at the state level. Each  
8 state gets indexed by inflation the amount of  
9 high-cost funding it previously got in the  
10 last 12 months. And then let the states work  
11 out internally how that filters down to the  
12 various companies they have within the state,  
13 which I think on the face of it has the appeal  
14 to me in terms of having the state make some  
15 closer-to-the-ground decisions about where the  
16 money is best used. So, it provides -- I  
17 think it provides a lot more discipline in the  
18 marketplace without what I would call  
19 handcuffing individual carriers in a way that  
20 might be very difficult for a small carrier.

21 COMMISSIONER ABERNATHY: Mr. Lubin.

22 MR. LUBIN: It's a very tough, tough  
23 question. My bottom line is the system is so  
24 fundamentally broken, whether it's USF  
25 methodology we're talking about now, whether

1 it's USF contribution, whether intercarrier  
2 compensation. It's fundamentally broken. And  
3 from my point of view, the most important  
4 thing in terms of prioritization of resources  
5 is to try to figure out the intercarrier  
6 compensation and the contribution methodology.

7           Once you've solved that -- and, in  
8 fact, in some of the solutions, in particular  
9 the ICF, has included various components that  
10 addresses these issues, in particular the one  
11 that I've already described that says the  
12 incumbent rate-of-return carrier should have a  
13 different subsidy per line than an ETC if the  
14 subsidy per line is rising because of the  
15 incumbent losing lines. And the CETC  
16 shouldn't be given that. And that should be  
17 clear that that's not going to happen. So,  
18 you create inefficient entry.

19           Thank you.

20           COMMISSIONER ABERNATHY: Mr.  
21 Reynolds.

22           MR. REYNOLDS: Thank you,  
23 Commissioner Abernathy.

24           I think one of the presumptions here  
25 that efficiencies can only be created through

1 regulation is a little bit off the mark.  
2 Generally speaking, I think that there are a  
3 lot of reasons why the companies want to  
4 operate efficiently, certainly just not to  
5 gain a system of universal service support.

6 One of the things -- and this kind of  
7 goes to Dr. Lehman said that you don't want to  
8 create an incentive that removes an incentive  
9 to invest in rural America. And aside from,  
10 you know, kind of the strict language of what  
11 we think Congress intended with the Act, which  
12 is to have a specific, sufficient, and  
13 predictable universal service fund, there's  
14 also this concept of uncertainty that comes  
15 along with the idea of continually changing up  
16 the regulatory scheme so that as you go to the  
17 capital markets, for instance, to draw down  
18 money so that you can invest in rural markets  
19 for rural consumers, that that creates a lot  
20 of the uncertainty.

21 So, I think when Joel describes  
22 sequencing some of these regulatory events,  
23 it's -- I wouldn't characterize it as business  
24 as usual. I think that what ITTA is saying in  
25 this instance is don't change the current

1 system until we get some of these other items  
2 sequenced properly. And they all need to be  
3 taken in kind of the wholistic sense. And  
4 we're not interested in operating in an  
5 inefficient fashion at all.

6 Thank you.

7 COMMISSIONER ABERNATHY: And then --

8 MR. COIT: Excuse me. May I just  
9 make a brief comment?

10 COMMISSIONER ABERNATHY: Sure.

11 MR. COIT: I would like to just -- I  
12 think this needs to be said. And with respect  
13 to forward-looking cost models or any sort of  
14 price-capping mechanism -- Mr. Lehman  
15 commented on this a little bit -- we're  
16 talking about a smaller company. I think  
17 Mr. Lubin indicated earlier and made the  
18 suggestion that, you know, Verizon loses lines  
19 and they deal with it.

20 A rural carrier losing lines  
21 obviously because of their limiting economies  
22 is in a much more difficult position in terms  
23 of dealing with. In addition to that, you  
24 know, with respect to the forward-looking cost  
25 model, you know, one of the reasons that the

1 RTF after their studies recommended that it's  
2 not appropriate or suitable for rural  
3 companies was because of the disproportionate  
4 impact on rural carriers as a result of errors  
5 in the model.

6 I think the disproportionate impact  
7 that we're talking about if you look at  
8 that -- looking at some sort of price-capping  
9 mechanism is that when a rural carrier has to  
10 replace a switch, the percentage of cost that  
11 that makes up on the entire rural cost  
12 carrier's of that year is much than for larger  
13 carriers. They're not in a position to deal  
14 as easily with substantial investments that  
15 are needed in their networks because of  
16 whatever technology that may be coming down  
17 the road that they really feel their customers  
18 need in order to get the services that they  
19 deserve,

20 So, you know, I think that is a  
21 caution that, you know, don't forget about the  
22 economies that are faced. And they're much  
23 different and the impacts are much different.  
24 And I'm not sure that price capping mechanisms  
25 just as forward-looking mechanisms can deal

1 with that in a very easy way.

2 Thank you.

3 COMMISSIONER ABERNATHY: Well, that  
4 sort of leads to my next question, which was,  
5 in the old technology world, I think, yes,  
6 that was true because all you were delivering,  
7 the only revenue source you had from the loop  
8 to home was voice. And there was a certain  
9 amount that we believed that consumers would  
10 pay for voice and that's where we were.

11 But as we're moving into a world  
12 where the pipe to the home can deliver many  
13 other valuable services so you've got multiple  
14 revenues streams from that source, how does  
15 that or how can we factor that in when we look  
16 at what, if any, changes should be made?  
17 Because it really changes the way that you  
18 recover your cost for your plant, because all  
19 of a sudden the plant can deliver more value  
20 than it used to deliver in the old world.

21 Mr. Lubin, Mr. Coit, and then Mr.  
22 Weller.

23 MR. LUBIN: I want to respond  
24 directly, but I just want to make a highlight  
25 on Mr. Coit's point.



1           And my highlight to him is the very  
2   reason that he is articulating his last point  
3   is the reason why I was bifurcating the  
4   difference between an incumbent like Verizon  
5   versus a rate-of-return entity, literally  
6   having two different approaches. With regard  
7   to the broadband, for me, that's a wonderful  
8   question in the following sense: it comes back  
9   to the issue -- and I'm going to focus on  
10   rate-of-return rural companies -- if you're  
11   rate-of-return today and you are trying to  
12   make a decision of do I market -- not do I  
13   deploy broadband investment because if you're  
14   rate of return, I believe you have every  
15   economic incentive to deploy investment. Do  
16   you have the incentive to market the  
17   broadband?

18           And when you're talking about 1300  
19   companies, everybody is all over the place.  
20   So, I'm just making a general observation.  
21   And the general observation is, you made the  
22   point, well-founded, that says there's going  
23   to be new revenue opportunities. And the  
24   point that I want to make, though, is if we  
25   don't fix intercarrier compensation, then the

1 average intrastate access revenue is five  
2 cents per minute to originate and terminate  
3 the rate, and that goes from anywhere from,  
4 say, two cents to 35 cents -- I just quoted  
5 you the average of five -- if they sell that  
6 broadband pipe and then somebody puts an  
7 application called VoIP, voice over the  
8 Internet, over that, they're going to  
9 cannibalize. And if that customer is a  
10 high-toll generator in a high-toll traffic,  
11 well, they're going to cannibalize. So, the  
12 point is unless we fix intercarrier  
13 compensation, we don't have the right  
14 incentive. In fact, we have a disincentive  
15 for the incumbent to aggressively market that  
16 product to the rural customer.

17 COMMISSIONER ABERNATHY: And, yes, I  
18 hear you on and -- yes. We know that. And,  
19 unfortunately, this Joint Board, we don't --  
20 that's not our area or our proceeding. But I  
21 think at the FCC there is a real recognition  
22 that intercarrier comp distorts all kinds of  
23 market behaviors and destroys business plans.  
24 And the distortions flow over into rural areas  
25 as well as the non-rural areas. So, I agree

1 we've got to deal with that. And, you know,  
2 at the FCC we're looking forward to putting  
3 out a proceeding seeking comment on the most  
4 recent proposals. And we really appreciate  
5 all the work that's been done on it.

6 So, I think what we're trying to do  
7 here today is say, in addition to that, what  
8 else can we do. But thanks for pulling them  
9 together.

10 I can't remember what three people I  
11 called on, now. I think Mr. Weller and I  
12 believe Mr. Coit.

13 MR. COIT: And I'll be brief. Just  
14 with respect to the question of whether, you  
15 know, given the increased value of -- what the  
16 effect of that might be, I would agree that  
17 certainly there are additional services that  
18 are provided over those facilities which  
19 certainly offers some opportunity.

20 At the same time, though -- I think  
21 this is in part what Mr. Lubin was getting  
22 to -- we're dealing with the intercarrier comp  
23 issues and rural carriers on average -- and I  
24 don't know exactly what the percentage is in  
25 South Dakota today, but we all know that

1 across the country in terms of total revenue  
2 recovery, looking at rural carriers, much of  
3 it is wrapped up in assets in USF.

4 And to the extent that you may gain,  
5 you know, some additional revenue from some  
6 additional services, maybe that's going to  
7 just be necessary to replace what we've lost.  
8 But, you know, certainly there's a lot of  
9 pressures on the other revenues. So, that has  
10 to be taken into account.

11 COMMISSIONER ABERNATHY: Mr. Weller,  
12 you'll have the final word.

13 MR. WELLER: Thank you, Chairman  
14 Abernathy.

15 I think, first of all, as far as  
16 adding value is concerned, that's what you  
17 want the carriers to do. You want to  
18 structure the system so that you can give them  
19 incentives to do that. Their circumstances  
20 are very different from ours, of course, but  
21 we want that same incentive to add value to  
22 replace what you're losing in your traditional  
23 business.

24 And I think that decoupling the  
25 support from the variations that we've had,

1 the calculations that we've done in the past,  
2 is part of that. In other words, you want the  
3 support to reflect some sort format that they  
4 can get but they have to work with in order to  
5 go forward.

6 Interestingly, I've just heard some  
7 interesting programs that the British have  
8 adopted to address this concern that  
9 Mr. Lehman raised about putting broadband in  
10 rural areas and not having anybody sign up.  
11 That's a little outside of the scope of the  
12 discussion here. I'd be happy to talk to you  
13 about it off line.

14 But the final observation is simply  
15 that market structure is an outcome in terms  
16 of relative sizes of firms and how they're  
17 organized. And I think that rather than try  
18 to design the system to preserve the current  
19 market structure, what we have to do is put  
20 incentives in place and then let the firms  
21 respond to those incentives possibly by  
22 choosing different market structures. In  
23 other words, if one of the concerns about the  
24 incentive is to scheme, it's that it becomes  
25 harder and harder for carriers the smaller and

1 smaller they get and the less averaging you  
2 have. This may create incentives for carriers  
3 to restructure themselves so as to better  
4 position themselves to deal with these market  
5 realities going forward.

6 COMMISSIONER ABERNATHY: Commissioner  
7 Dunleavy.

8 COMMISSIONER DUNLEAVY: Thank you,  
9 Madam Chairman.

10 In honor of Bob Rowe, I was going to  
11 try to formulate a really complex, multi --

12 (Laughter.)

13 COMMISSIONER DUNLEAVY: My colleagues  
14 have asked all the questions and the panelists  
15 have answered them, so I've got to get back to  
16 basics here. The basic question posed by this  
17 panel was, should rural carrier support be  
18 based on embedded or forward-looking costs?  
19 Not surprisingly, implicit in all of the  
20 answers there seems to be significant  
21 differences of opinion on whether the purpose  
22 of that support should be to maintain the  
23 financial health of an incumbent LEC or to  
24 mitigate the higher cost.

25 Let me ask you to assume for a

1 moment -- and that's probably dangerous --  
2 that the purpose of the high-cost support is  
3 to mitigate cost differences among different  
4 areas, rather than the different cost among  
5 different carriers. Given that assumption,  
6 our task would be to determine if cost  
7 variations exist among various areas of the  
8 country. Now, Mr. Coit, perhaps can do a  
9 better -- you might help me out.

10           Population density is or appears to  
11 be a significant driver of cost disparities  
12 among various areas of the country. Are there  
13 any other characteristics, perhaps  
14 topographical, climatic, that contribute  
15 significantly to such cost differentials?

16           MR. COIT: Yes. I think there are a  
17 lot of them. I think that that's primarily a  
18 problem in trying to come up with a  
19 forward-looking mechanism that would be  
20 accurate enough that you don't have some  
21 significant errors that cause some impacts  
22 that you don't want to see. I think low  
23 density, though, is a huge driver.

24           You know, in a lot of cases, I think,  
25 it boils down to distance. You know, if you

1 just look at the areas, if you only have 2.1  
2 subscribers per route mile, it's pretty  
3 obvious that you're going to spend a lot more  
4 to reach those subscribers. And it's the  
5 function, I think of a lot of things. And I  
6 know I'm not giving you much of an answer  
7 here, but do I think it's a multiple number of  
8 factors. You know, size of the company  
9 certainly has a lot to do with it as well in  
10 terms of number of people that you have -- the  
11 number of people that you have working for the  
12 company and the number of people that you're  
13 serving.

14 COMMISSIONER DUNLEAVY: That being  
15 the case, would it make any sense to identify  
16 a half dozen or dozen types of service areas,  
17 if you will, reflecting density and other  
18 significant cost factors and then estimate  
19 average costs of serving each type of that  
20 area in an efficient manner?

21 MR. COIT: I personally don't believe  
22 that you should necessarily look at just the  
23 area served. I really do believe that larger  
24 companies have some economies and somebody to  
25 manage it that smaller companies do not have.



1 In a competitive environment, it's certainly  
2 harder to average and price the way you want  
3 to price, but I don't think any of us could  
4 say there isn't some averaging that occurs.

5 And I think that, you know, if you're  
6 looking at areas served rather than the  
7 companies, I think you're assuming that there  
8 aren't any of those efficiencies. And I don't  
9 think that's appropriate. I think you need to  
10 look at areas served in part, but I think more  
11 than anything it should be tied to the  
12 companies directly, and we define the  
13 companies appropriately based on the areas  
14 they serve.

15 COMMISSIONER DUNLEAVY: I wonder, Dr.  
16 Lehman, if perhaps -- and maybe this is  
17 further expanding on what Commissioner  
18 Abernathy asked. Could we invent a similar  
19 means of estimating costs and perhaps based on  
20 actual costs, the best-in-class or something  
21 like that?

22 DR. LEHMAN: Two different answers,  
23 one to the first question. I'm in agreement  
24 with Dr. Selwyn here. I actually think that  
25 order of magnitude forward-looking estimates

1     probably can be accurately obtained. My point  
2     would be that order of magnitude is not good  
3     enough for small carriers. It's the  
4     difference between making far too much money,  
5     far too little money, or possibly the right  
6     amount.

7             And to Mr. Weller's point, I don't  
8     really think you want to pre-guess the market  
9     structure and put small companies out of  
10    business because they can't live with the  
11    degree of accuracy that you're able to produce  
12    in the forward-looking cost model.

13            Now, having said that, to the last  
14    question that you just asked, are there other  
15    ways to come at what a forward-looking cost  
16    might be. You know, I've done some  
17    simulations of how forward-looking costs and  
18    embedded costs differ across a number of  
19    characteristics. And you can produce fairly  
20    confident predictions about how different they  
21    might be, and it's on the order of 10 percent  
22    or less for loop costs.

23            But having done that, in the end,  
24    what do you come up with? You come up with  
25    something that's only validated by comparison

1 to embedded costs anyways. It sounds like a  
2 lot of work to still be -- you have to  
3 validate the results of this to know that you  
4 have reasonable cost estimates. And there's  
5 nothing else to look at other than embedded  
6 costs. So, in the end embedded cost have to  
7 be the guide to whether you came up with a  
8 reasonable cost model. You have a thousand  
9 inputs. And even if you 900 of them are  
10 accurate, you don't know if you have a  
11 reasonable output of that model unless you  
12 compare it to something real. And  
13 unfortunately the only real data we have to  
14 compare it to is embedded cost.

15 COMMISSIONER DUNLEAVY: That's a  
16 little different than Dr. Selwyn.

17 DR. SELWYN: Just one quick comment.  
18 Dr. Lehman mentioned the model that he  
19 developed which compares embedded and  
20 forward-looking costs. I have looked at his  
21 paper and reviewed his work. And basically  
22 that analysis starts with the same set of  
23 inputs. So, in other words, if the costs --  
24 if the basic investments numbers are wrong to  
25 begin with, then the relationship is

1 identified while -- while, you know,  
2 interesting at an academic level, it doesn't  
3 really teach anything about what happens if  
4 you apply an efficient forward-looking cost  
5 model one the hand versus just simply taking  
6 the books -- the costs on the company's books  
7 as embedded costs as a given. We have no  
8 information right now as to what that  
9 relationship is.

10           We need to start -- even an indexing  
11 mechanism, for example, simply preserves --  
12 unless it takes a fresh look at what the costs  
13 ought to be, then it's simply preserving  
14 whatever inefficiencies -- locking in whatever  
15 inefficiencies may already be present.

16           When the Commission -- when the FCC  
17 and the state commissions initially adopted  
18 price cap regulation for the larger LECs, what  
19 they did in virtually every case was to  
20 conduct a full-blown general rate case to  
21 establish a going-in rate level. And then  
22 they indexed from that. They didn't simply  
23 take whatever the pre-existing rate level  
24 happened to be and go forward into a price cap  
25 world.

1           And so, if an indexing mechanism --  
2    which might, in fact, have some merit going  
3    forward at least on a transitional basis until  
4    we get to forward-looking costs. If that were  
5    to be adopted, we would still need to validate  
6    the going-in cost levels as the Commission and  
7    the state commissions did when we went to  
8    price caps.

9           MR. GARNETT: Just getting back to  
10   the original question, I think we would agree  
11   that in rural areas you're going to have to  
12   deal with -- especially for small carriers,  
13   you're going to have to deal with the number  
14   of other inputs. The Alaska Commission in  
15   their comments talks about a long list of  
16   inputs the Commission could consider. We're  
17   realistic that it's going to take a while to  
18   put smaller carriers on a forward-looking  
19   system, and that that system needs to account  
20   for those differences.

21           But the fact is that 75 percent of  
22   the 1300 study areas that Mr. Lubin has talked  
23   about are 65 percent of the rural telephone  
24   company access lines. And those are all  
25   carriers with over 50,000 lines in a study

1 area. Those aren't the companies that we're  
2 talking about when we're talking about some of  
3 the real problems with the forward-looking  
4 mechanism that we have right now. And, you  
5 know, we think that it's -- it makes sense to  
6 move those bigger companies. I think Verizon  
7 said it should be if you have over 100,000  
8 access lines in the state. In our comments we  
9 say 50,000. You know, we can split the  
10 difference, that's fine with us.

11 But the point is that for some of  
12 these bigger rural telephone companies,  
13 they're looking a lot more like non-rural  
14 telephone companies that have been under a  
15 forward-looking mechanism for several years  
16 now. And in many cases they're much bigger  
17 than some of the non-rural carriers that are on  
18 the forward-looking mechanism.

19 I think it was either Sprint or  
20 Verizon in their comments that noted that  
21 Roseville in California has just over 100,000  
22 access lines. They've been on a  
23 forward-looking mechanism, and I think they're  
24 still in business. They've haven't declared  
25 bankruptcy. Things are going okay. And so,

1 all of these predictions of sort of dire  
2 consequences of going to a forward-looking  
3 mechanism for -- especially for the bigger  
4 rural carriers, I think are a little bit of,  
5 you know, seriously conclusory statements.

6 One of the other things I've also  
7 heard from a number of people here is that we  
8 shouldn't do it because it's difficult. I see  
9 in a lot of the comments it's complex, it's  
10 difficult. That shouldn't be a reason for not  
11 picking the right outcome, the right  
12 mechanism. And we think there are a lot of  
13 smart people in this room and together we  
14 could probably come up with pretty good  
15 forward-looking mechanism that accounts for  
16 all the differences that we've talked about.

17 COMMISSIONER DUNLEAVY: Mr. Reynolds,  
18 briefly because I've overdone my time.

19 MR. REYNOLDS: I'll be brief.  
20 Responding to Mr. Garnett, first of all, one  
21 of the things -- absolute line size has never  
22 been an attribute at all to whether somebody  
23 is rural, whether they have high cost, low  
24 cost, or whatever. You can have poor study  
25 areas and we have member companies in a states

1    like Montana, the large, square states,  
2    noncontiguous operating areas. Line size has  
3    nothing at all to do with the operating  
4    characteristics of those companies. It's not  
5    captured in the cost models.

6                   And I'd also go back and just --  
7    there are a lot of smart people in this room.  
8    There are a lot of smart people associated  
9    with the Rural Task Force. And when you go  
10   back and you look at the effort that they did  
11   in there working paper number four to validate  
12   how the FCC synthesis model would treat rural  
13   companies, you find a dislocation of about  
14   \$1.1 billion in loss of support to the rural  
15   companies, which included holding companies  
16   that have rural companies and stand alone  
17   rural companies.

18                   Thank you.

19                   COMMISSIONER MARTIN: Mr. Weller, I  
20   saw in your testimony and was intrigued about  
21   your discussion about a presumption of one ETC  
22   in each area. And I was wondering if you  
23   could give us insight into how and who would  
24   chose what the one ETC would be in your  
25   proposal.



1           MR. WELLER: That's an interesting  
2 question. You keep coming back to who gets  
3 the money, don't you? Frankly, I think in the  
4 near term there may be a strong presumption  
5 that it would the incumbent because of the  
6 cost of dislocation to consider. I think down  
7 the road if you're talking about something  
8 completely different, thinking beyond the near  
9 term, I'd say infrastructure grants.

10           I just sat through a couple days of a  
11 conference at the OECD looking at efforts to  
12 support rural broadband networks throughout  
13 the world. And almost without exception there  
14 are upfront grants and almost without  
15 exception they're awarded on an itinerant  
16 basis, option basis.

17           So, I think in the near term if we're  
18 talking about who gets the existing  
19 regulation, who gets the existing support, as  
20 you know, I have made some proposals along  
21 those lines in the past. But I'm not sure  
22 they're really applicable today when we're  
23 trying to change the framework.

24           So, I think these sort of mechanical  
25 changes that I've proposed here today are more